Abstract

Information about the power hours of a mall or store is important. With the knowledge of the power hours information, the store or mall manager can determine staff planning decisions according to in-visitor traffic from the store or mall. The problem arises when counting in-visitor or people counting traffic is done manually because it requires a lot of effort. In this study a prototype system was designed that can automatically calculate visitors using the single-shot detector method of OpenCV which is used to detect human objects that are considered as in-visitors. The prototype system was created using the Raspberry Pi as an embedded computer used to process frame images captured by Pi cam. Based on the tests conducted, the resulting accuracy is 65.08% for systems that count in-store visitors and 66.12% for systems that count passing people.

Keywords : performance, shopping place, detection, visitors, single shot detector, in-store visitor